

=> b reg
FILE 'REGISTRY' ENTERED AT 14:24:43 ON 09 APR 2008
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STRUCTURE FILE UPDATES: 8 APR 2008 HIGHEST RN 1012980-81-2
DICTIONARY FILE UPDATES: 8 APR 2008 HIGHEST RN 1012980-81-2

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TSCA INFORMATION NOW CURRENT THROUGH January 9, 2008.

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REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stn/gen/stndoc/properties.html>

=> d que sta l12
L7 STB



VAR G1=NH2/8/11

VAR G2=0/S

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

ECOUNT IS M4-X6 C M1-X2 N AT 2
ECOUNT IS E6 C AT 3
ECOUNT IS E3 C E1 N E1 S AT 6

GRAPH ATTRIBUTES

GRAPH ATTRIBUTES:
BING(S) ARE ISOLATED OR EMBEDDED

RING(S) ARE ISOLATED OR
NUMBER OF NODES IS 13

NUMBER OF NODES IS 13

STABDO ATTRIBUITUS: NO

STEREO ATTRIBUTES: NONE
L10 149228 SEA FILE=REGISTRY ABB=ON PLU=ON (N
NC2NC3)/ES AND NCSC2/ES
L12 22 SEA FILE=REGISTRY SUR L10 SSS FIL 17

100.0% PROCESSED 136538 ITERATIONS 22 ANSWERS
SEARCH TIME: 00:00:00

SEARCH TIME: 00.00.02

22 ANSWERS

=> d que sta 120

L1 1 SEA FILE=HCAPLUS ABB=ON PLU=ON US20070049619/PN
L2 TRANSFER PLU=ON L1 1- RN : 82 TERMS
L3 82 SEA FILE=REGISTRY ABB=ON PLU=ON L2
L10 149228 SEA FILE=REGISTRY ABB=ON PLU=ON (NC5 OR NC6 OR NC2NC2 OR
NC2NC3) /ES AND NCSC2/ES

NH[✓] Me Me[✓] N^{✓✓} Me 7 13
 @8 9 10 @11 12 G1 G2
 Cy[✓] Hy[✓] Cb[✓] G3^{✓✓✓} C[✓] C[✓] Hy
 1 2 3 4 5 6

VAR G1=NH2/8/11
VAR G2=O/S

REP G3=(1-4) C
NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED
ECOUNT IS M4-X6 C M1-X2 N AT 2
ECOUNT IS E6 C AT 3
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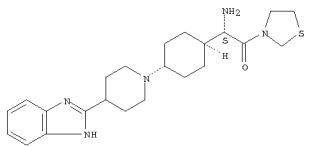
GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 14

STEREO ATTRIBUTES: NONE
L19 9 SEA FILE=REGISTRY SUB=L10 SSS FUL L17
L20 9 SEA FILE=REGISTRY ABB=ON PLU=ON L19 AND L3

=> d ide can 114 tot

L14 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2008 ACS on STN
RN 855341-78-5 REGISTRY
ED Entered SIN: 15 Jul 2005
CN Thiazolidine, 3-[(2S)-amino[trans-4-(4-(1H-benzimidazol-2-yl)-1-piperazinyl)cyclohexyl]acetyl]- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C23 H33 N5 O S
CI COM
SR CA

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

=> b hcap
FILE 'HCAPLUS' ENTERED AT 14:24:58 ON 09 APR 2008
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FILE COVERS 1907 - 9 Apr 2008 VOL 148 ISS 15
FILE LAST UPDATED: 8 Apr 2008 (20080408/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d bib abs hitrn fhitstr 122 tot

L22 ANSWER 1 OF 1 HCPLUS COPYRIGHT 2008 ACS on STN
 AN 2005:540575 HCPLUS
 DN 143:78210
 TI Preparation of piperazine compounds having α -amino acid moiety as DPP-IV inhibitor
 IN Akahoishi, Fumihiko; Hayashi, Yoshiharu
 PA Mitsubishi Pharma Corporation, Japan
 SO PCT Int. Appl. 58 pp.
 C02EN: PIXXD2
 DP Patent
 LA Japanese
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO--200505641	A1	200505623	2004W0-JP001871	200411210
W: AF, AG, AL, AM, AI, AU, AZ, BA, BB, BG, BR, BM, BY, BE, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LZ, LU, LV, MA, MD, MG, MK, MM, MX, MZ, NA, NL, NO, OM, PR, PT, RO, RU, SD, SE, SI, TR, TM, TW, VE, VN, ZA, ZM, ZW, RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PI, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MN, MR, SN, TD, TZ				
CA----2548918	A1	20050623	2004CA-002548918	20041210
EP----1695969	A1	20060820	2004EP-000820297	20041210
R: AI, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PI, SI, LT, FI, RO, CZ, TR, BG, CZ, EE, HU, PL, SK, IS				
CN----3890220	A1	20040703	2004CN-08036728	20041210
US-20070049619	A1	20070301	2006US-000382602	20060630
PPAI 2003JP-000413846	A	20031211		
2004W0-JP0018479	W	20041210		
OS MARPAT 143:78210				
GI				

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Title compds. I (R₁ = H, halo, etc.; R₂ = H, halo, etc.; X = CHR₃, etc.; R₃ = NR₇R₈, etc.; R₇, R₈ = H, alkyl, etc.; Y = CRSR₆, etc.; R₅, R₆ = H, halo, etc., Z = H, CN, etc.; n = 0-2 such as m + n = 1-3; p = 1-3) were prepared. For example, reaction of compound I, e.g., prepared from 4-hydroxy-L-phenylglycine in 2 steps, followed by treatment with trifluoroacetic acid afforded compound III. In serum DPP-IV inhibition assays, the IC₅₀ value of compound III was 1.6 nM. Compds. I are claimed useful for the treatment of diabetes, obesity, etc.

IT 855298-61-4P 855298-72-5P 855298-73-6P
 855298-74-7P 855298-75-8P 855298-76-9P
 855298-77-0P 855298-78-1P 855298-79-2P
 855298-80-5P 855298-81-6P 855298-82-7P
 855298-83-8P 855298-84-9P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of piperazine compds. having α -amino acid moiety as DPP-IV inhibitor for treatment of diabetes and obesity)

IT 855298-62-3P 855299-03-5P 855299-06-9P

855298-63-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

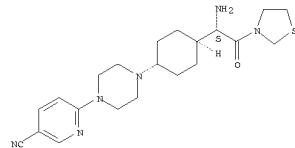
(preparation of piperazine compds. having α -amino acid moiety as DPP-IV inhibitors for treatment of diabetes and obesity)

IT 855298-64-3P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

L22 ANSWER 1 OF 1 HCPLUS COPYRIGHT 2008 ACS on STN (Continued)
 (prepn. of piperazine compds. having α -amino acid moiety as DPP-IV inhibitors for treatment of diabetes and obesity)
 RN 855298-68-9 HCPLUS
 CN Thiazolididine, 3-(C(S)-amino[trans-4-(4-(5-cyano-2-pyridinyl)-1-piperazinyl)cyclohexyl]acetyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RE.CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> b uspatall
FILE 'USPATFULL' ENTERED AT 14:25:36 ON 09 APR 2008
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FILE 'USPATOLD' ENTERED AT 14:25:36 ON 09 APR 2008
CA INDEXING COPYRIGHT (C) 2008 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'USPAT2' ENTERED AT 14:25:36 ON 09 APR 2008
CA INDEXING COPYRIGHT (C) 2008 AMERICAN CHEMICAL SOCIETY (ACS)

=> d bib abs hitrn fhitstr 125 tot

L25 ANSWER 1 OF 2 USPATFULL on STN
 AN 2007:113376 USPATFULL
 II Image forming apparatus and image forming method
 IN Shishido, Makoto, Osaka, JAPAN
 OS 00000000000000000000000000000000
 PI US-20070098442 A1 20070503
 AI 2006US-000582602 A1 20061018 (11)
 PRAI 2005JP-000316760 20051031
 DT Utility
 FS APPLICATION
 LREP Arthur G. Schaler, Carmody & Torrance LLP, 50 Leavenworth Street, P.O.
 Box 1110, Waterbury, CT, 06721-1110, US
 CLMN Number of Claims: 8
 ECL Exemplary Claim: 1
 DRW No Drawing Page(s)
 LN.CNT 925
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides an image forming apparatus which can, by uniform leveling of the particles which are non-uniformly adhered to the surface of the photoconductor, obtain a leveling means having a predetermined shape, and can maintain the excellent image characteristics for a long period even when a contact charging method is adopted as a charging means and an image forming method which uses the image forming apparatus. In an image forming apparatus which sequentially arranges a charging means, a developing means, a transfer means, and a fixing means, the leveling means is constituted of an electrophotographic photoconductor, the charging means is constituted of a contact-type charging means, and the leveling means which levels particles on a surface of the electrophotographic photoconductor is arranged between the transferring means and the charge eliminating means.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 855298-68-9P 855298-69-OP 855298-70-3P
 855298-71-4P 855298-72-5P 855298-73-6P
 855298-74-7P 855298-75-8P 855298-76-9P
 855298-77-0P 855298-78-1P 855298-79-2P
 855298-80-5P 855298-81-6P 855298-82-7P
 855298-83-8P 855298-84-9P 855298-85-0P
 855298-86-1P 855298-87-2P 855298-88-3P
 855298-89-4P 855298-90-5P
 (preparation of piperazine compds. having α -amino acid moiety as DPP-IV inhibitors for treatment of diabetes and obesity)

IT 855299-01-3P 855299-03-5P 855299-06-EP
 855299-07-9P 855299-13-7P 855299-17-1P

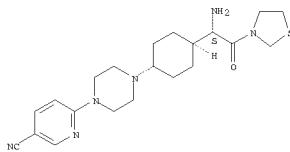
IT 855298-68-9P
 (preparation of piperazine compds. having α -amino acid moiety as DPP-IV inhibitors for treatment of diabetes and obesity)

IT 855299-08-9P
 (preparation of piperazine compds. having α -amino acid moiety as DPP-IV inhibitors for treatment of diabetes and obesity)

RN 855299-09-9P USPATFULL

CN Thiazolidine, 3-((2S)-amino)[trans-4-(4-(5-cyano-2-pyridinyl)-1-piperazinyl)cyclohexyl]acetyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L25 ANSWER 2 OF 2 USPATFULL on STN
 AN 2007:56673 USPATFULL
 II Alpha-amino acid derivatives and use thereof as medicines
 IN Akahoshi, Fumihiko, Chuo-ku, JAPAN
 Nakashita, Yuriharu, Chuo-ku, JAPAN
 PA Mitsubishi Pharma Corporation, Osaka-shi, JAPAN, 541-0046 (non-U.S. corporation)

PI US-20070049619 A1 20070301
 AI 2006US-000582602 A1 20041210 (10)
 2004WJ-JP0018479 20041210
 20060630 PCT 371 date

PRAI 2003JP-000413846 20031111

DT UTILITY

FS APPLICATION
 LREP LEIDIG VOLK & MAYER, LTD, TWO PRUDENTIAL PLAZA, SUITE 4900, 180 NORTH

STATE STREET AVENUE, CHICAGO, IL, 60601-6731, US

CLMN Number of Claims: 14

ECL Exemplary Claim: 1

DRW No Drawings

LN.CNT 1760

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Compounds represented by the α -amino acid derivative or a pharmaceutically acceptable salt thereof of the present invention have a therapeutic effect due to a DPP-IV inhibitory action and useful as pharmaceutical agents for the treatment and/or prophylaxis of diseases relating to a DPP-IV inhibitor.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 855298-68-9P 855298-69-OP 855298-70-3P
 855298-71-4P 855298-72-5P 855298-73-6P
 855298-74-7P 855298-75-8P 855298-76-9P
 855298-77-0P 855298-78-1P 855298-79-2P
 855298-80-5P 855298-81-6P 855298-82-7P
 855298-83-8P 855298-84-9P 855298-85-0P
 855298-86-1P 855298-87-2P 855298-88-3P
 855298-89-4P 855298-90-5P
 (preparation of piperazine compds. having α -amino acid moiety as DPP-IV inhibitors for treatment of diabetes and obesity)

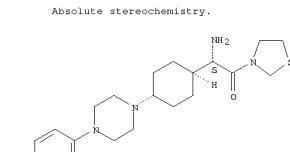
IT 855299-01-3P 855299-03-5P 855299-06-EP
 855299-07-9P 855299-13-7P 855299-17-1P

IT 855298-68-9P
 (preparation of piperazine compds. having α -amino acid moiety as DPP-IV inhibitors for treatment of diabetes and obesity)

RN 855299-09-9P USPATFULL

CN Thiazolidine, 3-((2S)-amino)[trans-4-(4-(5-cyano-2-pyridinyl)-1-piperazinyl)cyclohexyl]acetyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L25 ANSWER 1 OF 2 USPATFULL on STN (Continued)

=> b reg
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STRUCTURE FILE UPDATES: 8 APR 2008 HIGHEST RN 1012980-81-2
DICTIONARY FILE UPDATES: 8 APR 2008 HIGHEST RN 1012980-81-2

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TSCA INFORMATION NOW CURRENT THROUGH January 9, 2008.

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

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L1      1 SEA FILE=HCAPLUS ABB=ON PLU=ON US20070049619/PN
L2      TRANSFER PLU=ON L1 1- RN :     82 TERMS
L3      82 SEA FILE=REGISTRY ABB=ON PLU=ON L2
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          G2   G2
          ||   ||
          O~^C      S~^C
@17  18       @21 20
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VAR G2=O/S
REP G3=(1-4) C
VAR G4=16/17/21/O/S
NODE ATTRIBUTES:
NSPEC IS RC AT 16
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED
ECOUNT IS E6 C AT 3
ECOUNT IS E3 C E1 N E1 S AT 6
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GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 20
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STEREO ATTRIBUTES: NONE
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L29      15 SEA FILE=REGISTRY SUB=L27 SSS FUL L26
L30      15 SEA FILE=REGISTRY ABB=ON PLU=ON L29 AND L3
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FILE 'HCAPLUS' ENTERED AT 14:48:14 ON 09 APR 2008
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FILE COVERS 1907 - 9 Apr 2008 VOL 148 ISS 15
FILE LAST UPDATED: 8 Apr 2008 (20080408/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d bib abs hitrn fhitstr l31 tot

L31 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2008 ACS on STN
 AN 2005:540575 HCAPLUS
 DN 143:78210

TI Preparation of piperazine compounds having a-amino acid moiety as DPP-IV inhibitor.

IN Akahoishi, Fumihiko; Hayashi, Yoshiharu
 PA Mitsubishi Pharma Corporation, Japan
 SO PCT Int. Appl.; 58 pp.
 C07B 2/00; C07D 205/00

DP Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO--2005056451	A1	20050623	2004WO-JP0018470	20041210
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CA-----2548918	A1	20050623	2004CA-002548918	20041210
EP-----3695969	A1	20060820	2004EP-000820297	20041210
R: AI, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PI, PT, SI, LT, FI, RO, CZ, TR, BG, CZ, EE, HU, PL, SK, IS				
CN-----3890220	A1	20070103	2004CN-080836728	20041210
US-20070049619	A1	20070301	2006US-000382602	20060630
PPAT 2003JP-000413846	A	20031211		
2004WO-JP0018470	W	20041210		
OS MARPAT 143:78210				
GI				

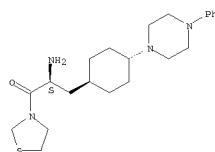
* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Title compds. I (R₁ = H, halo, etc.; R₂ = H, halo, etc.; X = CHR₃, etc.; R₃ = NR₇R₈, etc.; R₇, R₈ = H, alkyl, etc.; Y = CRSR₆, etc.; R₅, R₆ = H, halo, etc., Z = H, CN, etc.; n = 0-2 such as n + n = 1-3; p = 1-3) were prepared. For example, reaction of compound I, e.g., prepared from 4-hydroxy-L-phenylglycine in 2 steps, followed by treatment with trifluoroacetic acid afforded compound III. In serum DPP-IV inhibition assays, the IC₅₀ value of compound III was 1.6 nM. Compds. I are claimed useful for the treatment of diabetes, obesity, etc.

IT 855299-17-0P 855299-17-0P 855299-17-0P
 855299-98-3P 855299-98-3P 855299-98-3P
 855299-91-8P 855299-92-3P 855299-91-8P
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses);
 (preparation of piperazine compds. having a-amino acid moiety as DPP-IV inhibitors for treatment of diabetes and obesity)
 IT 855299-13-7P 855299-17-1P 855299-18-2P
 855299-20-6P 855299-21-7P 855299-71-7P
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); PREP (Preparation); RACT (Reaction or result);
 (preparation of piperazine compds. having a-amino acid moiety as DPP-IV inhibitors for treatment of diabetes and obesity)
 IT 855299-85-0P
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses);
 (preparation of piperazine compds. having a-amino acid moiety as DPP-IV inhibitors for treatment of diabetes and obesity)
 RN 855299-85-0 HCAPLUS

L31 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2008 ACS on STN (Continued)
 CN Thiazolidine, 3-[(2S)-2-amino-1-oxo-3-[trans-4-(4-phenyl-1-piperazinyl)cyclohexyl]propyl]- (SCl) (CA INDEX NAME)

Absolute stereochemistry.



RE.CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> b uspatall
FILE 'USPATFULL' ENTERED AT 14:48:36 ON 09 APR 2008
CA INDEXING COPYRIGHT (C) 2008 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'USPATOLD' ENTERED AT 14:48:36 ON 09 APR 2008
CA INDEXING COPYRIGHT (C) 2008 AMERICAN CHEMICAL SOCIETY (ACS)

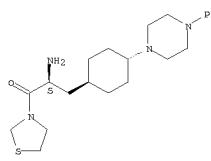
FILE 'USPAT2' ENTERED AT 14:48:36 ON 09 APR 2008
CA INDEXING COPYRIGHT (C) 2008 AMERICAN CHEMICAL SOCIETY (ACS)

=> d bib abs hitrn fhitstr 133 tot

133 ANSWER 1 OF 2 USPATFULL ON STN
 AN 100-113376 USPATFULL
 TI Image forming apparatus and image forming method
 Ishidiso, Makoto, Osaka, JAPAN
 GOKA, Shihio, Osaka, JAPAN
 PI US20070788442 AI 20070503
 AI 200615-000352602 AI 20061018 (11)
 PRAI 2005JP-000316760 20051031
 DT Utility
 FS APPLICATION
 LREQ Arthur J. Schaefer, Carmody & Torrance LLP, 50 Leavenworth Street, P.O.
 1110, Waterbury, CT, 06721-1110, US
 CLMN Number of Claims: 8
 ECL Exemplary Claim: 1
 DRW 9 Drawing Page(s)
 LN.CNT 982
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.
 AB The present invention provides an image forming apparatus which can, by uniformly leveling the particles which are non-uniformly adhered to the surface of the photoconductor by using a leveling means having a predetermined shape, and can maintain the excellent image characteristics for a long period even if the leveling means is adopted after a charging means and an image forming method which uses the image forming apparatus. In an image forming apparatus which sequentially arranges a charging means, a developing means, a transferring means and a charge eliminating means around an electrophotographic photoconductor, the leveling means is constituted a contact type leveling means which levels particles on a surface of the electrophotographic photoconductor is arranged between the transferring means and the charge eliminating means.
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.
 IT 855298-85-0P 855298-86-1P 855298-87-2P
 855298-88-3P 855298-89-4P 855298-90-7P
 855298-91-EP 855298-92-9P 855270-51-3P
 (preparation of piperazine compds. having a-amino acid moiety as DPP-IV inhibitors for treatment of diabetes and obesity)
 IT 855299-13-EP 855299-17-1P 855299-18-2P
 855299-20-6P 855299-21-7P 855270-71-7P
 (preparation of piperazine compds. having a-amino acid moiety as DPP-IV inhibitors for treatment of diabetes and obesity)
 IT 855299-22-EP 855299-23-8P 855270-72-8P
 (preparation of piperazine compds. having a-amino acid moiety as DPP-IV inhibitors for treatment of diabetes and obesity)
 RN 855298-85-0 USPATFULL
 CN Thiazolidine, 3-[(2-amino-1-oxo-3-(trans-4-(phenyl-1-piperazinyl)cyclohexyl)propyl)- (9CI) (CA INDEX NAME)

533 ANSWER 2 OF 2 USPATFULL OR STN
 AN 2007-56673 USPATFULL
 TI Alpha-amino acid derivatives and use thereof as medicines
 IN Akahoshi, Fumihiko, Chuo-ku, JAPAN
 Hayashi, Yoshiharu, Chuo-ku, JAPAN
 PA Mitsubishi Pharma Corporation, Osaka-shi, JAPAN, 541-0046 (non-U.S.
 Corporation)
 PI US-20070046619 AI 20070301
 AI 200405-000582602 AI 20041210 (10)
 200440-JP0018479 20041210
 20060630 PCT 371 date
 PRPAI 2003JP-000413846 20031211
 DT Utility
 FS APPLICATION
 LREQ LEYDIG VOIT & MAYER, LTD, TWO PRUDENTIAL PLAZA, SUITE 4900, 180 NORTH
 STETSON AVENUE, CHICAGO, IL, 60601-6731, US
 CLRM 1 claim(s) of claims: 14
 ECL Examinations: Claim: 1
 DRMN No Drawings
 LN.CNT 1780
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.
 AB Compositions represented by α-amino acid derivative or a
 pharmaceutically acceptable salt thereof of the present invention have a
 therapeutic effect due to a DPP-IV inhibitory action and useful as
 pharmaceutical agents for the treatment and/or prophylaxis of diseases
 relating to a DPP-IV inhibitor.
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.
 IT 855298-85-08 855298-86-1P 855298-87-2P
 855298-88-3P 855298-89-4P 855298-90-7P
 855298-91-8P 855298-92-9P 855270-51-3P
 (preparation of piperezine compds. having α-amino acid moiety as
 DPP-IV inhibitors for treatment of diabetes and obesity)
 IT 855299-13-7B 855299-17-1B 855299-18-2P
 855299-21-6P 855299-21-7B 855720-71-7B
 (preparation of piperezine compds. having α-amino acid moiety as
 DPP-IV inhibitors for treatment of diabetes and obesity)
 IT 855298-85-05
 (preparation of piperezine compds. having α-amino acid moiety as
 DPP-IV inhibitors for treatment of diabetes and obesity)
 RN 855298-85-00 USPATFULL
 CN Thiazolidine-(2S)-2-amino-1-oxo-3-(trans-4-(4-phenyl-1-
 piprazinyl)cyclohexyl)propyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



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(FILE 'HOME' ENTERED AT 13:24:54 ON 09 APR 2008)

FILE 'HCAPLUS' ENTERED AT 13:25:06 ON 09 APR 2008
L1 1 US20070049619/PN

FILE 'REGISTRY' ENTERED AT 13:25:44 ON 09 APR 2008

FILE 'HCAPLUS' ENTERED AT 13:25:44 ON 09 APR 2008
L2 TRA L1 1- RN : 82 TERMS

FILE 'REGISTRY' ENTERED AT 13:25:44 ON 09 APR 2008
L3 82 SEA L2
L4 68 L3 AND NCSC2/ES
L5 67 L4 AND C6/ES
L6 54 L5 AND (NC5 OR NC6 OR NC2NC2 OR NC2NC3)/ES

FILE 'REGISTRY' ENTERED AT 13:29:56 ON 09 APR 2008
L7 STR
L8 0 L7
L9 1 CYCLOHEXANE/CN
L10 149228 (NC5 OR NC6 OR NC2NC2 OR NC2NC3)/ES AND NCSC2/ES
L11 0 L7 SAM SUB=L10
L12 22 L7 FULL SUB=L10
SAV TEM J602C1G1/A L12
L13 21 L12 AND L3
L14 1 L12 NOT L13

FILE 'HCAPLUS' ENTERED AT 13:39:50 ON 09 APR 2008
L15 1 L13
L16 0 L14

FILE 'REGISTRY' ENTERED AT 13:40:45 ON 09 APR 2008
L17 STR L7
L18 1 L17 SAM SUB=L10
L19 9 L17 FULL SUB=L10
SAV TEM J602C1GII/A L19
L20 9 L19 AND L3

FILE 'HCAPLUS' ENTERED AT 13:43:25 ON 09 APR 2008
L21 1 L20
L22 1 L15,L16

FILE 'REGISTRY' ENTERED AT 13:43:46 ON 09 APR 2008
L23 31 L12,L20

FILE 'HCAOLD' ENTERED AT 13:43:57 ON 09 APR 2008
L24 0 L23

FILE 'USPATFULL, USPATOLD, USPAT2' ENTERED AT 13:44:01 ON 09 APR 2008
L25 2 L23

FILE 'REGISTRY' ENTERED AT 14:35:31 ON 09 APR 2008
L26 STR L17
L27 36100 46.150.1/RID AND NCSC2/ES
L28 1 L26 SAM SUB=L27
L29 15 L26 FULL SUB=L27
SAV TEM J602C1GIIA/A L29
L30 15 L29 AND L3

FILE 'HCAPLUS' ENTERED AT 14:46:32 ON 09 APR 2008
L31 1 L30

FILE 'HCAOLD' ENTERED AT 14:46:45 ON 09 APR 2008
L32 0 L31

FILE 'USPATFULL, USPATOLD, USPAT2' ENTERED AT 14:47:13 ON 09 APR 2008
L33 2 L30

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